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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,125	08/21/2006	Alistair James Carr	DAIRY88.016APC	8879
	7590 01/06/201 RTENS OLSON & BE		EXAM	INER
2040 MAIN STREET FOURTEENTH FLOOR			WONG, LESLIE A	
IRVINE, CA 92614			ART UNIT	PAPER NUMBER
			1794	
			NOTIFICATION DATE	DELIVERY MODE
			01/06/2010	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com eOAPilot@kmob.com

	Application No.	Applicant(s)	
	10/564,125	CARR ET AL.	
Office Action Summary	Examiner	Art Unit	
	Leslie Wong	1794	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with	the correspondence address	s
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING I  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perior  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC, 1.136(a). In no event, however, may a reput will apply and will expire SIX (6) MONTH te, cause the application to become ABA	ATION.  ly be timely filed  HS from the mailing date of this commun  NDONED (35 U.S.C. § 133).	
Status			
1) ■ Responsive to communication(s) filed on 28.  2a) ■ This action is <b>FINAL</b> . 2b) ■ Th  3) ■ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matte	•	rits is
Disposition of Claims			
4)  Claim(s) 1-3,8-27,32 and 34 is/are pending in 4a) Of the above claim(s) is/are withdrest 5)  Claim(s) is/are allowed.  6)  Claim(s) 1-3, 8-27, 32, and 34 is/are rejected 7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according an applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examir 11).	ecepted or b) objected to be e drawing(s) be held in abeyand ection is required if the drawing(s	e. See 37 CFR 1.85(a). ) is objected to. See 37 CFR 1.	` '
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Bure:  * See the attached detailed Office action for a list	nts have been received. nts have been received in Ap fority documents have been r au (PCT Rule 17.2(a)).	plication No eceived in this National Stag	e
Attachment(s) 1) ☐ Notice of References Cited (PTO-892)	4) ☐ Interview Su	mmary (PTO-413)	
2) Notice of References Cited (F10-392) 2) Notice of Draftsperson's Patent Drawing Review (PT0-948) 3) Information Disclosure Statement(s) (PT0/SB/08) Paper No(s)/Mail Date	Paper No(s)	Mail Date ormal Patent Application	

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 8-27, 32, and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bhaskar et al (US 2003/0096036), General Foods (EP 0435573), and Schreiber Foods (WO 82/01806) in view of Poarch (US 4202907).

Bhaskar et al disclose a process for preparing a concentrated milk protein ingredient comprising providing a solution having a kappa-casein containing milk protein which is a membrane filtration retentate; adjusting the divalent ion content of a said protein solution to a predetermined; adding a food grade milk clotting; deactivating or removing said enzyme; and concentrating said solution .

General Foods discloses a process for preparing a concentrated milk protein ingredient for cheese which comprises providing a solution having a kappa-casein containing milk protein which is a membrane filtration retentate; adjusting the divalent ion content of a said protein solution; adding a food grade milk clotting enzyme under reaction conditions appropriate to convert said kappa-casein to para kappa-casein while maintaining a solution; deactivating or removing said enzyme to terminate said conversion; and concentrating said solution (see entire document, especially column 7, lines 12-28, and Example I and II).

Schreiber Foods discloses a process for preparing a concentrated milk protein ingredient for cheese which comprises providing a solution having a kappa-casein

containing milk protein; adjusting the divalent ion content of a said protein solution; adding a food grade milk clotting enzyme under reaction conditions appropriate to convert said kappa-casein to para kappa-casein while maintaining a solution; deactivating or removing said enzyme to terminate said conversion; and concentrating said solution (see entire document, especially page 12, lines 1-26, page 26, lines 26-31, and page 27, lines 8-18).

The claims differ as the recitation that the cation exchange serves to replace calcium and magnesium with sodium or potassium.

Poarch discloses a process for preparing a concentrated milk protein ingredient which comprises the steps of providing a solution having a casein containing milk protein; adjusting the divalent ion content of a said protein using cation exchange as is claimed; adding a food grade milk clotting enzyme; deactivating or removing said enzyme to terminate said conversion; and concentrating said solution (see entire patent, especially methods 2-4, and claim 6).

It would have been obvious to a person or ordinary skill in the art, at the time the invention was made, to use the cation exchange as taught by Poarch in that of Bhaskar et al (US 2003/0096036), General Foods (EP 0435573), and Schreiber Foods (WO 82/01806) because the use of cation exchange to replace one ion with another in the milk protein art is conventional. Applicant is using known components and process steps to obtain no more than expected results.

Applicant's arguments with respect to claims 1-3, 8-27, 32, and 34 have been considered but are most in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leslie Wong whose telephone number is (571)272-1411. The examiner can normally be reached on Tuesday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Keith Hendricks can be reached on 571-272-1401. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Leslie Wong/ Primary Examiner, Art Unit 1794

LAW January 3, 2010